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1. Slow Neutron Physics and Neutron Scattering

Papers

Distinct Features of the Histone Core Structure in Nucleosomes Containing the Histone H2A.B Variant

M. Sugiyama, Y. Arimura, K. Shirayama, R. Fujita, Y. Oba, N. Sato, R. Inoue, T. Oda, M. Sato, R. K. Heenan and H. Kurumizaka

Biophysical Journal, **106** (2014) 2206-2213.

A Novel Magnet Design Using Coated Conductor for Spiral Sector FFAG Accelerators

K. Goda, N. Amemiya, T. Nakamura, Y. Mori, T. Ogitsu, T. Kurusu and M. Yoshimoto

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, **24** (2014) 4402605.

Conformational Characterization of a Protein Complex Involving Intrinsically Disordered Protein by Small-angle Neutron Scattering Using the Inverse Contrast Matching Method: a Case Study of Interaction Between α -synuclein and PbaB Tetramer as a Model Chaperone

M. Sugiyama, H. Yagi, T. Yamaguchi, K. Kumoi, M. Hirai, Y. Oba, N. Sato, L. Porcar, A. Martel and K. Kato

J. Appl. Crystallogr., **47** (2014) 430-435.

Development of Highly-mechanically Polished Metal-substrate for Neutron Supermirrors

S. Takeda, J. Guo, S. Morita, H. Ono, T. Oda, J. Kato, H. Sato, M. Hino, Y. Yamagata and M. Furusaka

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Production of Ultra cold Neutrons by a Doppler Shifter with Pulsed Neutrons at J-PARC

K. Mishima, S. Imajo, M. Hino, T. Ino, Y. Iwashita, R. Katayama, M. Kitaguchi, T. Oda, H. M. Shimizu, M. Utsuro, S. Yamashita and T. Yoshioka

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Temperature Dependence of the Nanostructure in a PbSe–ZnSe Composite thin Film

Y. Oba, S. Abe, M. Ohnuma, N. Sato and M. Sugiyama

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J. Guo, S. Takeda, S. Morita, M. Hino, T. Oda, J. Kato, Y. Yamagata and M. Furusaka

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Observation of the Spatial Distribution of Gravitationally Bound Quantum States of Ultracold Neutrons and Its Derivation Using the Wigner Function

G. Ichikawa, S. Komamiya, Y. Kamiya, Y. Minami, M. Tani, P. Geltenbort, K. Yamamura, M. Nagano, T. Sanuki, S. Kawasaki and M. Hino

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Distribution of Glass Transition Temperature in Multilayered Poly (Methyl Methacrylate) Thin Film Supported on a Si Substrate as Studied by Neutron Reflectivity

R. Inoue, M. Nakamura, K. Matsui, T. Kanaya, K. Nishida and M. Hino

Phys. Rev. E, **88** (2014) 32601.

Numerical Simulation of BL06 Neutron Beamline for "VIN ROSE" at J-PARC/MLF

T. Oda, M. Hino, M. Kitaguchi, Y. Kawabata, N. L. Yamada and H. Seto

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Structure of Silver Bromide Doped Chalco Genide Glasses

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Y. Morimoto

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T. Fukunaga

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2. Nuclear Physics and Nuclear Data

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The Influence of p53 Status in Glioblastoma on the Effects of Boron Neutron Capture Therapy

K. Seki, Y. Kinashi and S. Takahashi

Anticancer Res., **35** (2015) 169-174.

A Nuclear Data Project on Neutron Capture Cross Sections of Long-Lived Fission Products and Minor Actinides

M. Igashira, T. Katabuchi, H. Harada, S. Nakamura, A. Kimura, N. Iwamoto, J. Hori and Y. Kiyanagi

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Cross Section Measurement of $^{237}\text{Np}(n, g)$ at J-PARC/MLF/ANNRI

K. Hirose, K. Furutaka, K. Y. Hara, H. Harada, J. Hori, M. Igashira, T. Kamiyama, T. Katabuchi, A. Kimura, T. Kin, F. Kitatani, Y. Kiyanagi, M. Koizumi, M. Mizumoto, S. Nakamura, M. Oshima and Y. Toh

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K. Kino, F. Hiraga, T. Kamiyama, Y. Kiyanagi, H. Harada, K. Y. Hara, K. Hirose, A. Kimura, F. Kitatani, S. Nakamura, M. Igashira, T. Katabuchi, M. Mizumoto and J. Hori

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S. Nakamura, A. Kimura, F. Kitatani, M. Ohta, K. Furutaka, S. Goko, K. Y. Hara, H. Harada, K. Hirose, T. Kin, M. Koizumi, M. Oshima, Y. Toh, K. Kino, F. Hiraga, T. Kamiyama, Y. Kiyanagi, T. Katabuchi, M. Mizumoto, M. Igashira, J. Hori, T. Fujii, S. Fukutani and K. Takamiya

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New Application for Boron Neutron Capture Therapy

M. Suzuki
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T. Yamamoto and H. Sakamoto
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Optimised Mounting Conditions for Poly (Ether Sulfone) in Radiation Detection
H. Nakamura, Y. Shirakawa, N. Sato, T. Yamada, H. Kitamura and S. Takahashi
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G. Ariyoshi, Y. Asai, D. Ito, Y. saito and K. Mishima
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Implementation of Two-group Interfacial Area Transport in a One-dimensional Computational Environment

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Experimental Benchmarks on the Thorium-Loaded Accelerator-Driven System at the Kyoto University Critical Assembly

C. H. Pyeon

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T. Misawa, T. Yagi, and C. H. Pyeon

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